

CLAIMS

What is claimed is:

1. A vehicle restraint system comprising:
 - a seat belt web for a vehicle;
 - a seat belt web retractor for receiving said seat belt web;
 - a web guide for receiving said seat belt web;
 - a support mountable to a vehicle body, said web guide rotatable about a first axis of said support; and
 - a pivot connection between said web guide and said support, said pivot connection comprising a first curved surface transverse to said first axis.
2. The vehicle restraint system of Claim 1 including a second curved surface mating with said first curved surface, said second curved surface transverse to said first axis.
3. The vehicle restraint system of Claim 2 wherein said first curved surface and said second curved surface are spherical.
4. The vehicle restraint system of Claim 2 wherein said support comprises said first curved surface and said web guide comprises said second curved surface.
5. The vehicle restraint system of Claim 1 including a spring extending along said first axis in communication with said web guide.
6. The vehicle restraint system of Claim 5 wherein said spring extends between said web guide and the vehicle body.

7. The vehicle restraint system of Claim 1 wherein one of said first curved surface and said second curved surface comprises a washer on said support.
8. The vehicle restraint system of Claim 1 wherein said pivot connection comprises a third curved surface transverse to said first axis and a fourth curved surface transverse to said first axis, said third curved surface mating with said fourth curved surface.
9. The vehicle restraint system of Claim 8 wherein said web guide forms two of said first, second, third and fourth curved surfaces.
10. The vehicle restraint system of Claim 1 including a tongue attached to said seat belt web, said tongue selectively insertable into a buckle.
11. The vehicle restraint system of Claim 1 wherein said first curved surface comprises a polymer.
12. The vehicle restraint system of Claim 1 including a gap extending along said first axis between said support and said web guide.

13. A web guide assembly comprising:
 - a web guide for receiving a seat belt web;
 - a support mountable to a vehicle body, said web guide rotatable about a first axis extending along said support; and
 - a joint connecting said web guide to said support, said joint fixed to said support along said first axis and pivotal along a second axis transverse to said first axis.
14. The web guide assembly of Claim 13 wherein said joint is pivotal along a third axis transverse to said first axis and second axis.
15. The web guide assembly of Claim 13 wherein said joint comprises a ball joint.
16. The vehicle restraint system of Claim 13 wherein said joint comprises a first curved surface and a second curved surface, said first curved surface mated to said second curved surface.
17. The vehicle restraint system of Claim 13 including a spring extending along said first axis in communication with said web guide.
18. The vehicle restraint system of Claim 17 wherein said spring extends between said web guide and a vehicle body.
19. The vehicle restraint system of Claim 13 wherein said web guide comprises a D-ring.

20. A web guide assembly comprising:
 - a D-ring for receiving a seatbelt web;
 - a support mountable to vehicle body, said D-ring rotatable about a first axis extending along said support; and
 - a universal joint connecting said D-ring to said support, said universal joint allowing said D-ring to pivot relative to said support along a second axis transverse to said first axis and along a third axis transverse to said first axis and said second axis.